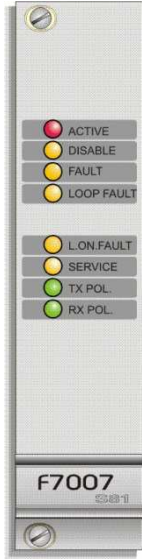


CARD S81-F7007

Analog Addressable Device Control Card - SSP Protocol

Control card for SSP (Scame Sistemi Protocol) protocol addressable devices. It can manage up to 127 analogue/digital input addressable modules and control modules. This card must not be used with fire detection systems.



MAIN CHARACTERISTICS

- NON REDUNDANT (Note 1)
- CAN BE HOT SWAPPED (Note 2)
- 127 addresses on SSP protocol
- Serial connection on 1200 m bus
- Serial line can be looped (3000 m max)
- Can control following addressable modules
 - S81-Mod-DI : eight non-monitored inputs
 - S81-Mod-DO : eight non-monitored open collector outputs
 - S81-Mod-AIT : four double balanced inputs, for intruder alarm
 - S81-Mod-AI020 : one 4-20 mA analogue input
 - S81-Mod-AI010 : 1 0-10 V analogue input
 - S81-Mod-DISP : status repeater display (Note 3)
- Periodical functionality self-testing of card and all connected devices
- Communication management by FPGA
- SMD technology multilayer circuit
- Front plug-in on 19" rack, with locking screws.

| LED | Status | Indication |
|--------------------------|--------|---|
| ACTIVE | ⊗ | One or more inputs in alarm or active condition |
| DISABLED | ⊗ | One input or output disabled |
| FAULT | ∅ | Fault condition |
| LOOP FAULT | ∅ | Loop short-circuit or opening |
| LOG ON FAULT | ∅ | Discrepancy between read and expected devices |
| SERVICE | ∅ | Optical smoke detector(s) dirty |
| TX POL | ∅ | Data transmission to devices on loop |
| RX POL | ∅ | Receipt of data from devices on loop |
| <i>LED status legend</i> | | ⊗ = on ∅ = blinking |

OPERATION

The card communicates, through the SSP protocol, with all the devices on a loop, periodically polling them or receiving calls (interrupts) from the devices that have detected a status variation. The analogue input modules can be polled, to show device value reading, either by the operator (from the panel) or by a supervisory program.

PARAMETER CONFIGURATION VIA SOFTWARE

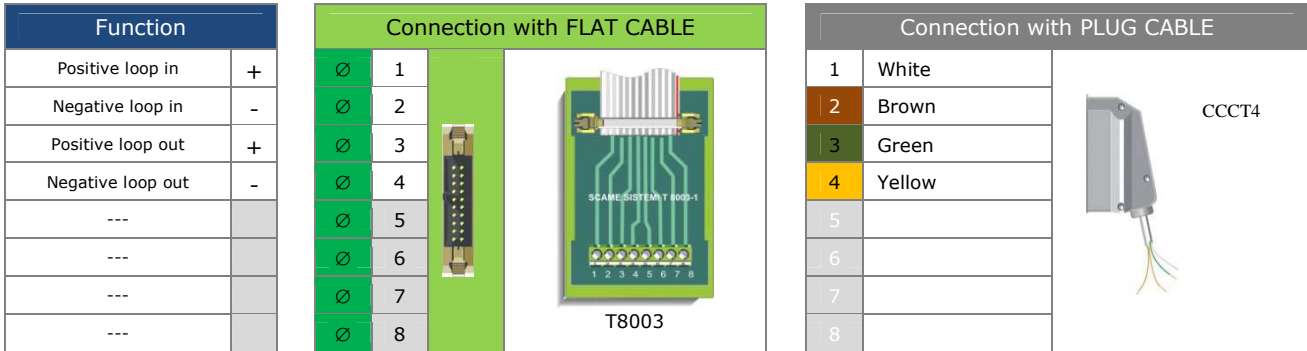
| | |
|---|--|
| Status | |
| Input operating mode | NO/NC |
| Channel logic status (Note 4) | Latching/Non-latching |
| Analogue module measuring range | See data sheets relevant to addressable devices |
| Thresholds | Pre-alarm/Alarm |
| Alarm output | Normal/Silent/Buzzer only |
| Output activation mode | Steady energised, steady de-energised, periodical, pulsing |
| Period (pulsing and periodic mode only) | Output settable between 1 and 15 seconds |

CONNECTION VIA TERMINATION MODULE

Connection between the card and the field is basically obtained by interposition of a terminal block module, which is mounted on a DIN rail inside the panel and is connected to the card rack by means of a flat cable with two quick connectors. The electronics-type terminals are suitable for cables having a section area of up to 4 mm².

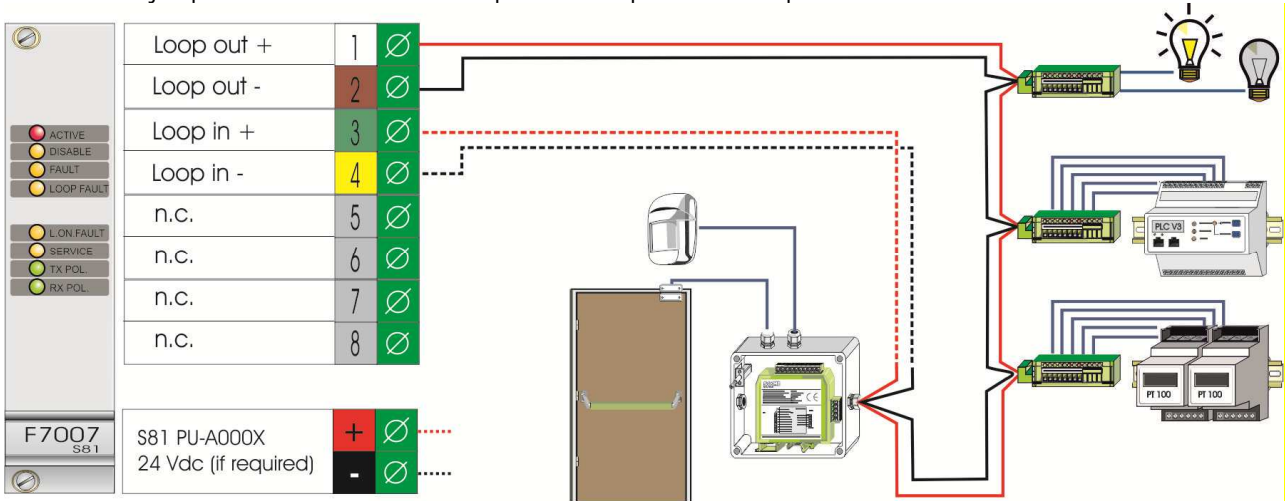
CONNECTION VIA CABLE PLUG

Connection between the card and the field is carried out by means of a special cable, provided with a plug-in connector at one of its ends. Cable conductors are wired directly onto a marshalling terminal block, while the connector is plugged into the backside of the rack.



Connection Examples

The connection between the card and devices takes place through two wires (positive and negative line) which return to the tab forming a ring. This connection is allowed if the devices do not exceed the maximum current allowed for the loop. In case the device requires a separate power supply, this will consist of a further connection of two conductors to carry the positive and negative of the 24 Vdc. The bus can also operate without ring closure, in which case a jumper on the terminal board inputs and outputs of the loop.



NOTES

Redundancy (Note 1)

Card redundancy is not possible, due to serial communication protocol.

Hot Swap (Note 2)

The card can be removed and replaced without switching off the panel, which would imply system inoperability.

S81-Mod-DISP Status Repeater (Note 3)

The alarm condition remains displayed until reset.

Latching Mode (Note 4)

An alarm status persists until reset.

SSP Compatibility

This card is compatible with SCAME's SSP protocol and with the addressable modules of the series S81 Mod-XXX.